



PM_{2.5} Hot Spot Analysis Results

November 15, 2013

Tier Two



Annual PM_{2.5} Concentrations (µg/m³)



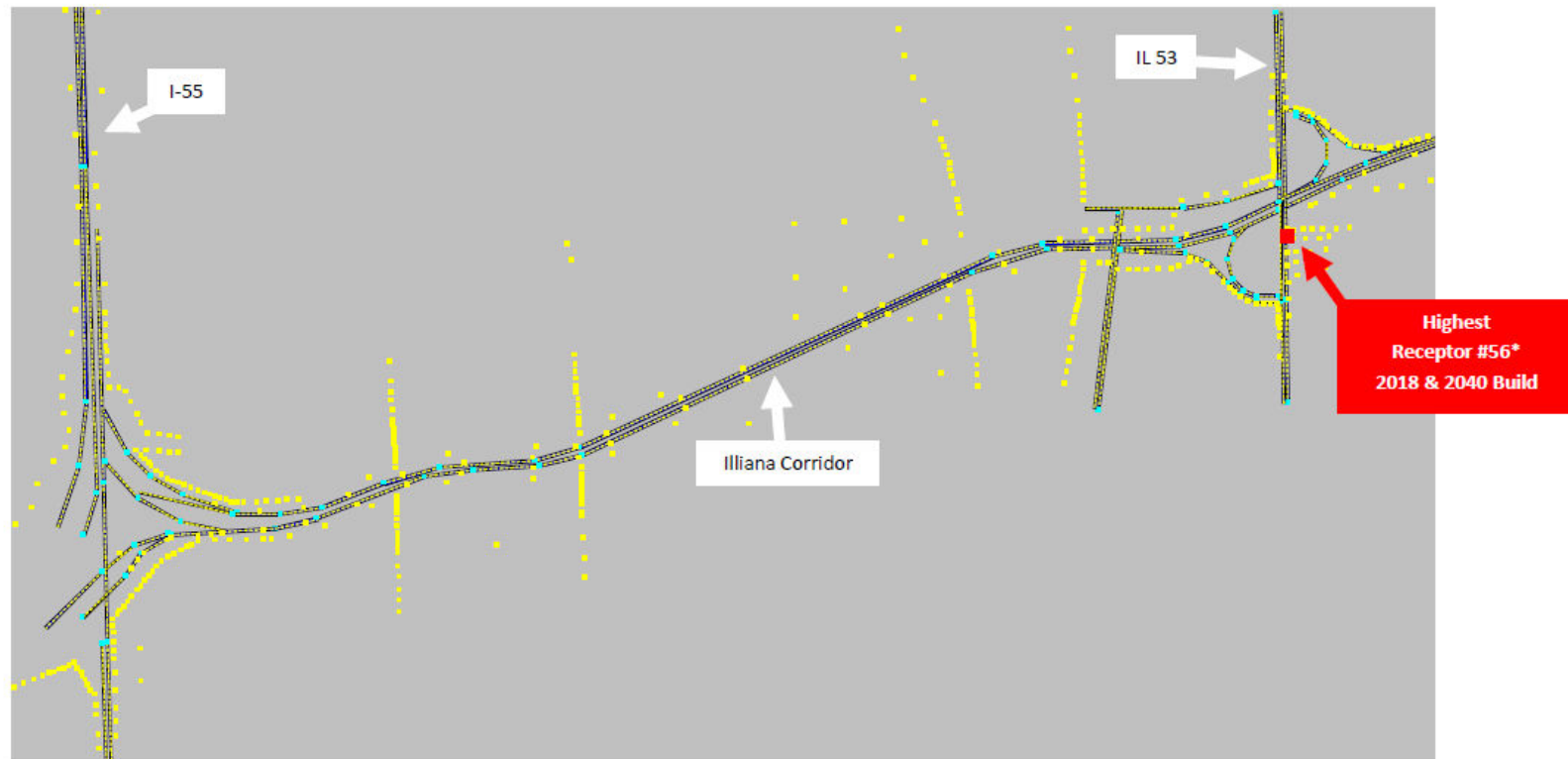
Site Number	Site Description	2018 Opening Year	2040 No Build Alternative	2040 Build Alternative*
1	Illiana Corridor between I-55 and IL-53	10.54	10.13	10.20
2	Illiana Corridor between US 45 and I-57	10.49	10.13	10.12
3	Illiana Corridor between IL-1 and US 41	10.39	10.03	10.07
4	Illiana Corridor between SR 55 and I-65	10.84	10.20	10.23

- All values are below the applicable NAAQS; as such, the project meets conformity requirements.
- The highest Build values are predicted near the interchange of Illiana Corridor and I-65.
- The lowest Build values are predicted along the Illiana Corridor, away from major interchanges.

Highest Receptor I-55 to IL 53



Site 1 – I 55 to IL 53



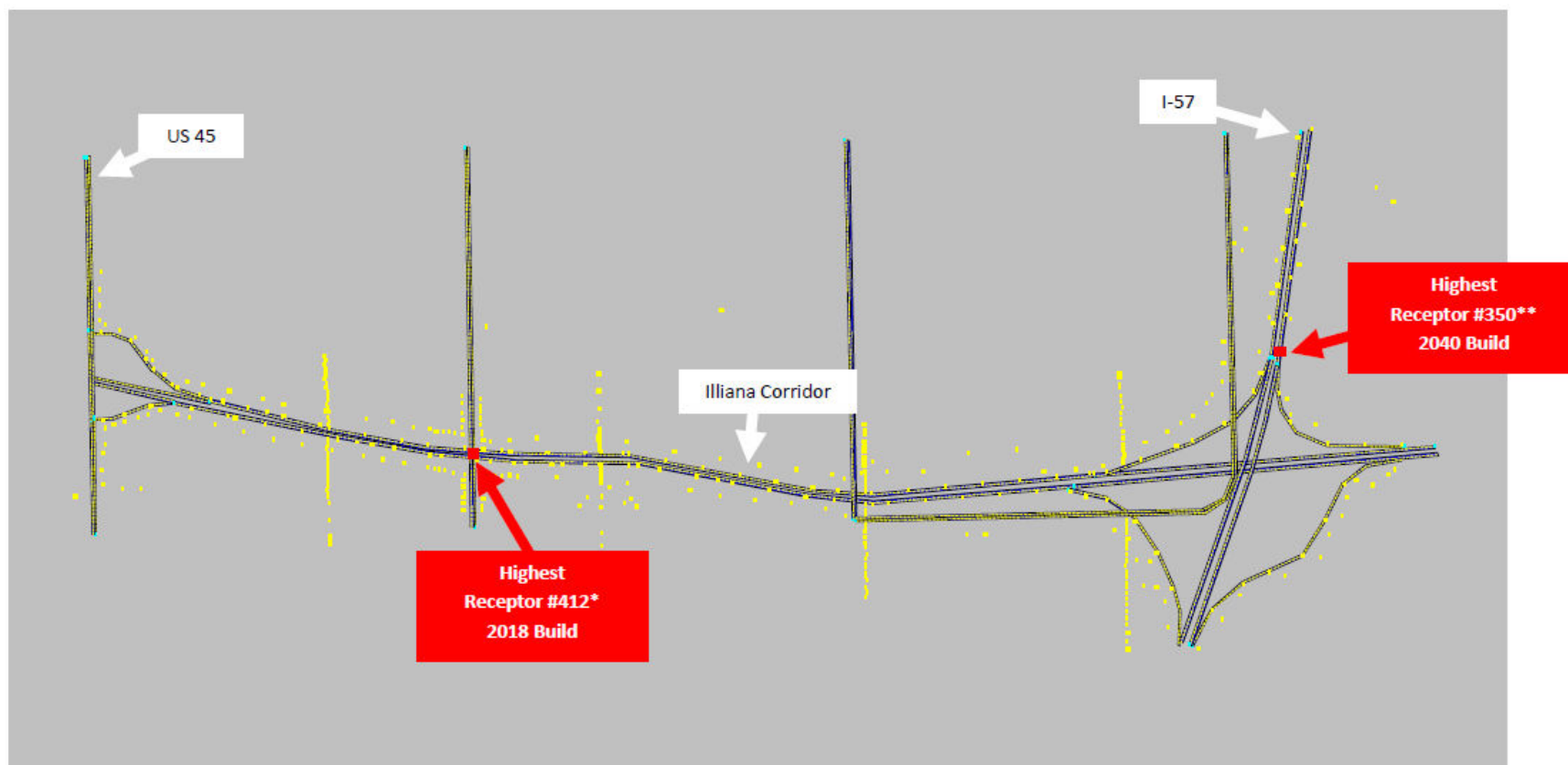
*Highest receptor for 2018 Build occurs at Receptor #56 in Fourth Quarter with 2007 meteorological data. Concentration = $0.807 \mu\text{g}/\text{m}^3$

*Highest receptor for 2040 Build occurs at Receptor #56 in First Quarter with 2010 meteorological data. Concentration = $0.419 \mu\text{g}/\text{m}^3$

Highest Receptor US 45 to I-57



Site 2 – US 45 to I-57



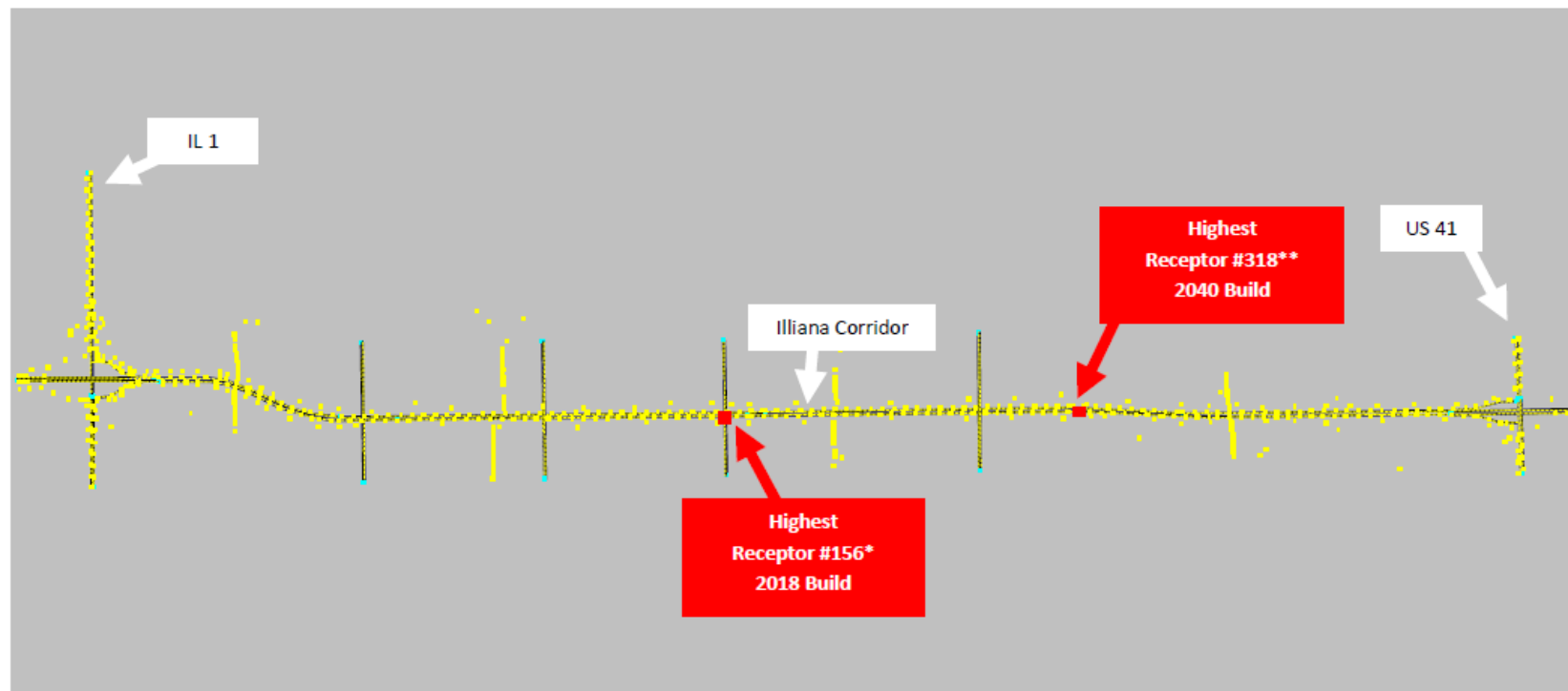
*Highest receptor for 2018 Build occurs at Receptor #412 in Third Quarter with 2009 meteorological data. Concentration = $0.681 \mu\text{g}/\text{m}^3$

**Highest receptor for 2040 Build occurs at Receptor #350 in First Quarter with 2007 meteorological data. Concentration = $0.307 \mu\text{g}/\text{m}^3$

Highest Receptor IL 1 to US 41



Site 3 – IL 1 to US 41



*Highest receptor for 2018 Build occurs at Receptor #156 in Third Quarter with 2007 meteorological data. Concentration = $0.582 \mu\text{g}/\text{m}^3$

**Highest receptor for 2040 Build occurs at Receptor #318 in First Quarter with 2010 meteorological data. Concentration = $0.227 \mu\text{g}/\text{m}^3$

Highest Receptor SR 55 to I-65



Site 4 – SR 55 to I-65



*Highest receptor for 2018 Build occurs at Receptor #182 in First Quarter with 2009 meteorological data. Concentration = $1.01 \mu\text{g}/\text{m}^3$

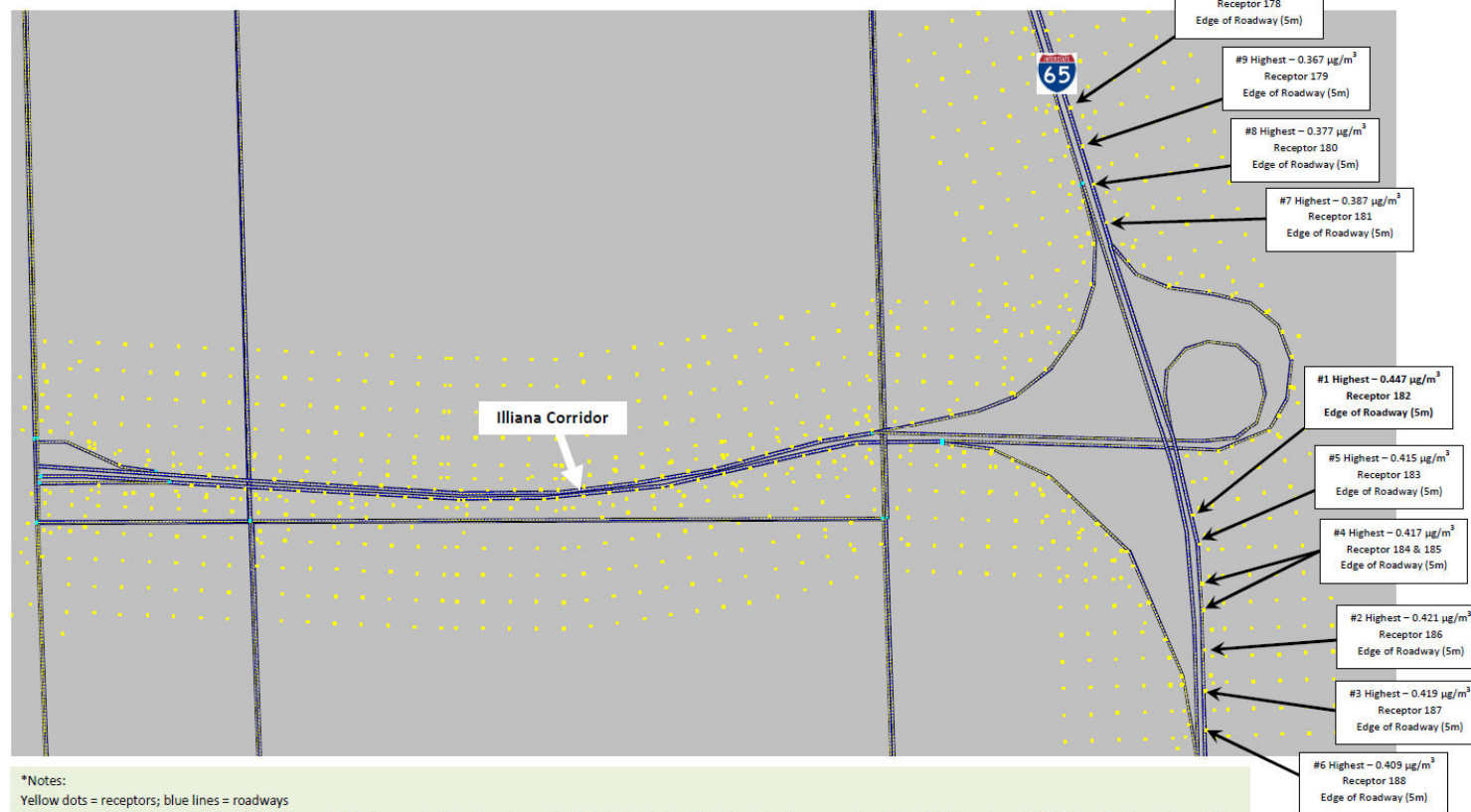
*Highest receptor for 2040 Build occurs at Receptor #182 in First Quarter with 2006 meteorological data. Concentration = $0.447 \mu\text{g}/\text{m}^3$

Highest 10 Receptors SR 55 to I-65



Illiana Corridor - Highest 10 Receptor Concentrations*

November 1, 2013



***Notes:**

Yellow dots = receptors; blue lines = roadways

Grid receptors @ 50m, 100m, 200m, 300m, 400m and 500m from centerline of roadways with 100m horizontal spacing. Edge of roadway receptors @ 5m. ROW receptors at ROW lines. Total receptors = 953

Concentrations represent 2040 Build conditions for the first quarter (January 1 – March 31) with 2006 meteorological data